

Notice of Allowability

Application No.

10-661,906

Examiner

Stephen W. Smoot

Applicant(s)

SHINO TOMOAKI

Art Unit

2813

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's amendment filed on 09 March 2005
2. ☒ The allowed claim(s) is/are 1-26
3. ☒ The drawings filed on 12 September 2003 and 09 March 2005 are accepted by the Examiner
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f)
 - a) ☒ All b) ☐ Some* c) ☐ None of the
 1. ☒ Certified copies of the priority documents have been received
 2. ☐ Certified copies of the priority documents have been received in Application No. _____
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))

* Certified copies not received _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413)
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SE/08)
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Stephen W. Smoot

Stephen W. Smoot
Patent Examiner
Art. Unit 2813

This Office action is in response to applicant's amendment filed on 09 March 2005.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

In the Claims:

In claim 3, line 2, change "crate" to --gate--; and

In claim 10, line 4, change "date" to --gate--.

3. Claims 1-26 are allowed.

4. The following is an examiner's statement of reasons for allowance:

- Claims 1-9 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a semiconductor device that

includes a first gate electrode that functions as a gate of a first conductive type of first MOS transistor in a first active area and also functions as a gate of a second conductive type of second MOS transistor in a second active area, wherein an end portion of the first gate electrode projecting from the first active area is obliquely arranged relative to a gate width direction of the first MOS transistor;

- Claims 10-18 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a semiconductor device that includes a first gate electrode that functions as a gate of a first conductive type of first MOS transistor in a first active area formed in an isolation area and also functions as a gate of a second conductive type of second MOS transistor in a second active area formed in the isolation area, wherein an end portion of the first gate electrode is present in the isolation area and is obliquely arranged relative to an extended direction of the first gate electrode arranged on the first active area; and
- Claims 19-26 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a semiconductor device with a rectangular unit cell, the unit cell including a first gate electrode that functions as a gate of a first conductive type of first MOS transistor in a first active area and also functions as a gate of a second conductive type of second MOS transistor in a second active area, wherein a longitudinal direction of a diffusion layer on a node side of the first MOS transistor and a long side direction of the unit cell are arranged at an angle of 20 to 30 degrees from each other.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on M-F (8:00 am to 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).